SEMINÁRIOS **PESC**

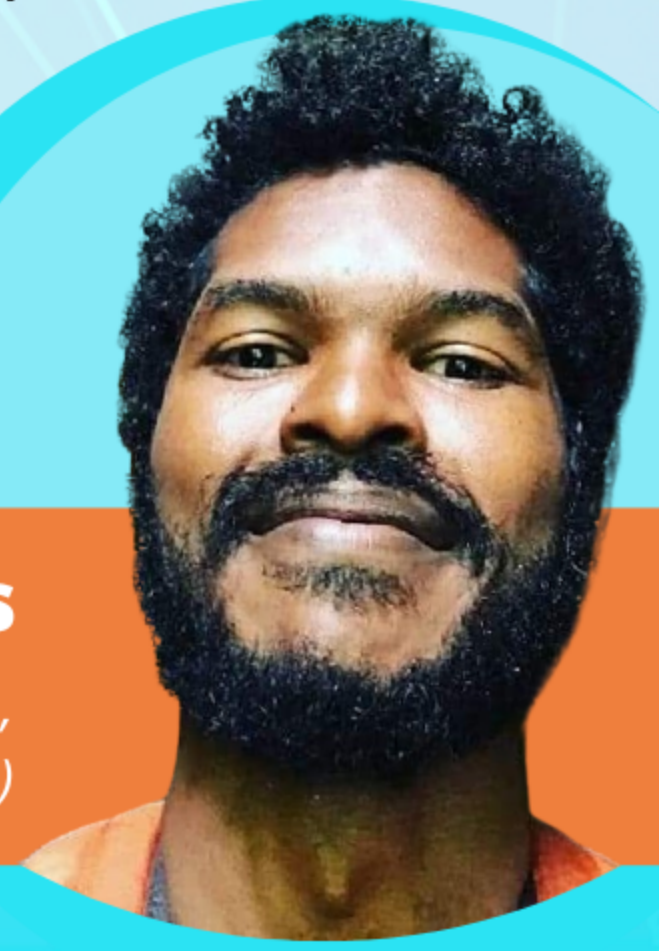
www.cos.ufrj.br/seminarios

COPPE UFRJ

Engenharia de Sistemas e Computação PESC/Coppe

How can a quantum computer help solve PDEs?

Partial Differential Equations (PDE) are present in several theoretical and industrial challenges, from astrophysics to chemical reactors, to cite a few. This vast range of applications is why academia has devoted much effort to this topic. In the machine learning era, new algorithms and numerical techniques are being invented to solve PDEs based on machine learning. This talk aims to present new forms to solve PDE based on physics-informed neural networks (PINN) in their different forms. In this talk, I will also describe how a quantum computer can solve PDEs with physical interpretation.



Fabio Pereira dos Santos

Professor Adjunto,
Universidade Federal do Rio de Janeiro (UFRJ)

14 Setembro

Quarta-feira às **11h**

Transmissão ao vivo no Canal do PESC no YouTube

EVENTO HÍBRIDO
Centro de Tecnologia,
Bloco H, Sala H-324B